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NOTICE OF ALLOWANCE AND FEE(S) DUE

21611

7590

12/30/2008

SNELL & WILMER LLP (OC) 600 ANTON BOULEVARD SUITE 1400 COSTA MESA, CA 92626 EXAMINER

MOORTHY, ARAVIND K

ART UNIT PAPER NUMBER

2131

DATE MAILED: 12/30/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| | | | | |

09/936,157 09/06/2001 Osamu Shibata 42478-8700 9192

TITLE OF INVENTION: METHOD APPARATUS AND SYSTEM FOR PERFORMING AUTHENTICATION ACCORDING TO CHALLENGE-RESPONSE PROTOCOL USING SCRAMBLED ACCESS INFORMATION

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/30/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | c) Transmittal Thi | s certif | icate cannot be used f | r domestic mailings of the or any other accompanying |
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| | | | pape have | ers. Each additiona e its own certificate | l paper of ma | , such as an assignme lling or transmission. | nt or formal drawing, must |
| 600 ANTON BO SUITE 1400 | | /2008 | I he Stat addi tran | reby certify that the | is Fee(| of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d | mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below. |
| COSTA MESA, | CA 92626 | | | | | | (Depositor's name) |
| | | | | | | | (Signature) |
| | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTC | RNEY DOCKET NO. | CONFIRMATION NO. |
| 09/936,157 | 09/06/2001 | | Osamu Shibata | | | 42478-8700 | 9192 |
| CHALLENGE-RESPON | ISE PROTOCOL USIN | G SCRAMBLED ACCES | _ | | | | 1 |
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| nonprovisional | NO | \$1510 | \$300 | \$0 • | | \$1810 | 03/30/2009 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | | | | |
| MOORTHY, . | | 2131 | 713-169000 2. For printing on the p | | | | |
| CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be | 1) the names of up to 3 registered patent attorneys r agents OR, alternatively, 2) the name of a single firm (having as a member a egistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is isted, no name will be printed. | | | |
| PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG | less an assignee is ident h in 37 CFR 3.11. Comp GNEE | ified below, no assignee oletion of this form is NO | T a substitute for filing an (B) RESIDENCE: (CITY | atent. If an assign assignment. and STATE OR C | OUNT | 'RY) | ocument has been filed for |
| Please check the appropr | iate assignee category or | categories (will not be pr | rinted on the patent): | Individual 🖵 Co | orporat | on or other private gro | oup entity Government |
| 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | |
| 5. Change in Entity Sta | * | * | Dis Annilians in a lan | CMAA | T 1731 | PIEN -1-1 C 27 C | ED 1 27(-)(2) |
| • • | s SMALL ENTITY stated d Publication Fee (if require) | | b. Applicant is no long | | | | e assignee or other party in |
| interest as shown by the | records of the United Sta | tes Patent and Trademark | Office. | 11 / 3 | | | 3 1 7 |
| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | | Registration N | Го | | |
| an application. Confident submitting the completed this form and/or suggesti | tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th | 1.14. This collection is est depending upon the indivite Chief Information Office | imated to take 12 r idual case. Any co cr. U.S. Patent and | ninute: mmen Trader | to complete, including s on the amount of time park Office, U.S. Depart | I by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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| SNELL & WILMER LLP (OC) | | | MOORTHY, | ARAVIND K |
| 600 ANTON BOULEVARD | | | ART UNIT | PAPER NUMBER |
| SUITE 1400 COSTA MESA, CA 92626 | | | 2131 DATE MAILED: 12/30/200 | 8 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 939 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 939 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) |
|--|--|--|
| | 09/936,157 | SHIBATA ET AL. |
| Notice of Allowability | Examiner | Art Unit |
| | Anarinal IC Maanther | 2424 |
| | Aravind K. Moorthy | 2431 |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 | S (OR REMAINS) CLOSED in i) or other appropriate commu RIGHTS. This application is s | this application. If not included nication will be mailed in due course. THIS |
| 1. \boxtimes This communication is responsive to <u>2/5/07</u> . | | |
| 2. ☑ The allowed claim(s) is/are <u>32-38</u> . | | |
| 3. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have | re been received. re been received in Applicatio | n No |
| Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). | ocuments have been received | in this national stage application from the |
| * Certified copies not received: | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | a reply complying with the requirements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mu | ust be submitted. | |
| (a) including changes required by the Notice of Draftsper | rson's Patent Drawing Review | v (PTO-948) attached |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | |
| (b) ☐ including changes required by the attached Examiner Paper No./Mail Date | r's Amendment / Comment or | in the Office action of |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | | |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | | |
| | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5. ☐ Notice of Inf | formal Patent Application |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | | ummary (PTO-413), |
| 3. ☐ Information Disclosure Statements (PTO/SB/08), | Mail Date Amendment/Comment | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. 🛛 Examiner's | Statement of Reasons for Allowance |
| | 9. | |
| | | /Christopher A. Revak/ Primary Examiner, Art Unit 2431 |

DETAILED ACTION

1. This is in response to the RCE filed on 5 February 2007.

2. Claims 32-38 are pending in the application.

3. Claims 32-38 have been allowed.

4. Claims 1-31 have been cancelled.

Continued Examination Under 37 CFR 1.114

5. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37

CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible

for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been

timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR

1.114. Applicant's submission filed on 5 February 2007 has been entered.

Response to Arguments

6. Applicant's arguments, see pages 7-14, filed 5 February 2007, with respect to claims 32-38

have been fully considered and are persuasive. The rejection of the claims has been withdrawn.

Allowable Subject Matter

7. Claims 32-38 are allowed.

The following is an examiner's statement of reasons for allowance:

The current application is directed towards an authentication communication system that

includes an storage medium having an area for storing digital information and an access device

for reading/writing digital information from/into the area. The access device authenticates

whether the storage medium is authorized according to a challenge-response authentication

protocol in which scrambled access information generated by scrambling the access information

Art Unit: 2131

which shows the area is used. The storage medium authenticates whether the access device is authorized. When the access device and the storage medium have authenticated each other as authorized devices, the access device reads/writes digital information from/into the area in the storage medium according to the access information separated from the scrambled access information by the access device.

Regarding independent claims 32, 35 and 38, the prior art does not disclose, teach or fairly suggest transmitting scrambled access information. The prior art does not disclose, teach or fairly suggest that the access information includes information designating an area in the storage medium used for storing digital information. As shown in figure 3 of the current application, the access information is 32 bits long and is composed of address information showing an address of an area in the data storage unit in the memory card and size information showing a size of the area (page 8 of the specification). The prior art does not disclose, teach or fairly suggest that access information is composed of an address of an area in the data storage unit and size information showing a size of the area.

Any claims not directly addressed are allowed in their virtue of dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aravind K Moorthy/

Examiner, Art Unit 2431

/Christopher A. Revak/

Primary Examiner, Art Unit 2431